

## CLAIMS

1. A collaboration apparatus between information processing systems for allowing a plurality of information processing means including information  
5 processing means based on different architectures to collaborate with each other, comprising:

collaboration information storage means for storing collaboration information among the plurality of information processing means;

role object generating means for generating role objects respectively  
10 corresponding to the information processing means that are allowed to collaborate with each other;

relating object generating means for referring to the collaboration information of the collaboration information storage means and generating a relating object for collaboration between the role objects.

2. A collaboration apparatus between information processing systems according to claim 1, wherein the collaboration information contains timing information on timing of passing of information between the information  
15 processing means.

3. A collaboration apparatus between information processing systems according to claim 2, wherein the timing information is selected from a plurality of kinds of communication methods including real communication, delayed batch communication, and batch communication.

4. A collaboration apparatus between information processing systems for allowing a plurality of information processing means including information  
25 processing means based on different architectures to collaborate with each other, comprising:

information identification object generating means for generating an information identification object that determines information to be stored in a storage apparatus of each information processing means;

collaboration information storage means for storing collaboration information among the plurality of information processing means;

role object generating means for referring to the collaboration information of the collaboration information storage means and generating  
5 respective role objects of the information processing means that are allowed to collaborate with each other; and

relating object generating means for referring to the collaboration information of the collaboration information storage means and generating a relating object for transmitting information to be stored in a storage  
10 apparatus of each information processing means between the role objects.

5. A collaboration apparatus between information processing systems according to claim 4, wherein the collaboration information contains timing information on timing of passing of information between the information  
15 processing means.

6. A collaboration apparatus between information processing systems according to claim 5, wherein the timing information is selected from a plurality of kinds of communication methods including real communication,  
20 delayed batch communication, and batch communication.

7. An integrated information processing system including a plurality of information processing means, the plurality of information processing means including information processing means based on different architectures, the  
25 system comprising:

collaboration information storage means for storing collaboration information among the plurality of information processing means; and

a collaboration apparatus between information processing systems for referring to the collaboration information of the collaboration information  
30 storage means and allowing the information processing means to collaborate with each other.

8. An integrated information processing system including a plurality of information processing means, the plurality of information processing means including information processing means based on different architectures, the system comprising:

5 information identification object generating means for generating an information identification object that determines information to be stored in a storage apparatus of each information processing means;

collaboration information storage means for storing collaboration information among the plurality of information processing means;

10 role object generating means for generating respective role objects of the information processing means that are allowed to collaborate with each other; and

relating object generating means for referring to the collaboration information of the collaboration information storage means and generating a

15 relating object for transmitting information to be stored in a storage apparatus of each information processing means between the role objects

9. A computer-readable recording medium storing a collaboration program between information processing systems that allows a computer to execute processing of allowing a plurality of information processing means including information processing means based on different architectures to collaborate with each other, the program allowing a computer to execute:

20 processing of generating role objects respectively corresponding to the information processing means that are allowed to collaborate with each other; and

processing of referring to collaboration information among the plurality of information processing means and generating a relating object for collaboration between the role objects.

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10. A computer-readable recording medium storing a collaboration program between information processing systems that allows a computer to execute

processing of allowing a plurality of information processing means including information processing means based on different architectures to collaborate with each other, the program allowing a computer to execute:

- processing of generating an information identification object that
- 5 determines information to be stored in a storage apparatus of each information processing means;
- processing of generating respective role objects of the information processing means that are allowed to collaborate; and
- processing of referring to collaboration information among the
- 10 plurality of information processing means and generating a relating object for transmitting information to be stored in a storage apparatus of each information processing means between the role objects.